



Product Bulletin

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MI-CLEAN™ 100

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HEAVY-DUTY, ROOM TEMPERATURE ALKALINE SOAK CLEANER

Mi-Clean™ 100 is a free-flowing granular mixture of detergents, wetting agents and builders which, when dissolved in water, work together to provide fast, efficient cleaning of most metals. It is formulated to be used effectively at room temperature. Tenacious soils may require agitation of the work or solution and/or elevated temperatures of 80° to 140°F. **Mi-Clean™ 100** rinses easily from the work, leaving a chemically clean surface necessary for use with Hubbard-Hall's Black Magic® RT and Mi-Tique room temperature processes.

Mi-Clean™ 100 is used at concentrations of 6 to 12 ounces per gallon of water. Dissolve the appropriate amount of **Mi-Clean™** in water while stirring. Premixing in a partially - filled tank is recommended. Warm water aids dissolving. Solutions of **Mi-Clean 100** are maintained at the required strength with periodic additions determined by a simple titration method, which will be furnished upon request. Regular additions will keep the solution operating efficiently until excessively contaminated, at which point it must be discarded.

Tanks should be constructed of mild steel. Racks and baskets may also be of mild steel or whatever material is compatible with other metal finishing solutions used thereafter. Do not use galvanized iron, bronze, copper, tin or aluminum tanks, baskets, racks, etc., as these metals will contaminate the solution.

CAUTION: THIS MATERIAL CONTAINS CAUSTIC SODA. MAY CAUSE SEVERE BURNS.

Do not get in eyes, on skin or on clothing. Avoid breathing dusts or mists. Do not take internally. When handling, wear goggles or face shield. While making up solutions, add slowly to surface of solution to avoid violent spattering. In case of contact, immediately flush skin or eyes with plenty of water for at least 15 minutes. For eyes, call a physician.

DROPPING BOTTLE CONTROL PROCEDURE FOR MI CLEAN 100

1. Measure 10 mls of cleaner solution, using a 10 ml graduated cylinder.
2. Place solution in, mixing bottle.
3. Add 5-10 drops of Methyl Orange Indicator.
4. Add Standard Sulfuric (5N) drop-wise while swirling the solution until solution turns from yellow to reddish-orange.

CALCULATION:

$$\text{CONCENTRATION MI-CLEAN™ 100 (OZ/GAL)} = \# \text{ DROPS OF ACID} \times 0.276$$

MI-CLEAN™ 100

WARRANTY

The quality of this product is guaranteed on shipment from our plant. If the use recommendations are followed, desired results will be obtained. Since the use of our products is beyond our control, no guarantee expressed or implied is made as to the effects of such use, or the results to be obtained.